# JOINT INFORMATION ENGINEERING ORGANIZATION

**Parkridge III, 10701 Parkridge Boulevard, Reston, VA 20191**

## SYMBOLOGY STANDARDS MANAGEMENT COMMITTEE DIRECTIVE

**SSMC NO: 3-01** **Date: August 24, 2001**

| **CP No: MIL00-15B** | **Title: Add Rectangular Sensor Zone** |
|---|---|

**Originator, Name and Address:**

**Army/PM EFCCS**

**SSMC Action:**

- ☐ **Approved**
- ☒ **Approved with Changes**
- ☐ **Withdrawn**
- ☐ **Deferred**
- ☐ **Declared Substantive**
  - **By:**
- ☐ **Disapproved**
- ☐ **Testing Required**
  - ☐ **Prior to Decision**
  - ☐ **Subsequent to Decision**
- ☐ **Allied Coordination Required**

**Votes Cast/Proposed Change**

| Approve | Disapprove | N/A | |
|---|---|---|---|
| ☒ | ☐ | ☐ | **Army** |
| ☒ | ☐ | ☐ | **Navy** |
| ☒ | ☐ | ☐ | **MC** |
| ☒ | ☐ | ☐ | **AF** |
| ☒ | ☐ | ☐ | **NIMA** |
| ☐ | ☐ | ☐ | **CINC** |
| ☐ | ☐ | ☐ | **JIEO** |
| ☐ | ☐ | ☐ | **NSA** |
| ☒ | ☐ | ☐ | **DIA** |

**Decision:**

**Approved as modified. See attached CP for approved modifications.**

**Chairperson**

Mary Ann Andersen

**(Signature)**

| SYMBOLOGY CONFIGURATION MANAGEMENT<br>CHANGE PROPOSAL FORM | | | |
|---|---|---|---|
| **CHANGE PROPOSAL NUMBER** | | **MIL00-15B** | |
| **ORIGINATOR** | **SPONSOR** | **DATE RECEIVED** | **DATE OF ACTION** |
| **PM FATDS** | **ARMY** | **1 September 2000** | **August 23, 2001** |
| **CHANGE PROPOSAL TITLE** | | | |
| ADD NEW SYMBOL, **SENSOR ZONE, RECTANGULAR** | | | |
| **SUGGESTED CHANGE** | | | |

The Fire Support community has a requirement to add a new symbol to MIL-STD-2525B.

1. The purpose of the rectangular Sensor Zone symbol is to graphically display radar Sensor Zones to commanders in the Common Operational Picture (COP)/Common Tactical Picture (CTP).
2. Recommend adding to hierarchy item 2.X.4, Fire Support, under the "Areas", "Target Acquisition Zones" hierarchy, 2.X.4.3.3, figure B-17, and table B-IV.

## OVERVIEW

Currently, the standard does not contain a symbol depicting rectangular radar Sensor Zones. The purpose of the rectangular Sensor Zone symbol is to graphically display to commanders and operators the geometry used by fire support radar's to designate specific areas covered by that radar. Incorporation into MIL STD 2525B, which will be used in JMTK and GSD, will allow the symbols to be transmitted/received by all battlefield system. Sensor Zones are a required symbol for use in the COP/CTP to be shared across the battlefield. The development of the COP/CTP is required of all ABCS component systems. Fire Support systems are the producer of rectangular radar Sensor Zones for the COP/CTP. Fire Support systems will retain this capability for fielding throughout the Army and USMC.

## OPERATIONAL DESCRIPTION

In general, the rectangular radar Sensor Zone symbols is used to designate specific areas covered by a radar. Two (2) point locations and a width are required to graphically display a rectangular Sensor Zone. The minimum information required to interoperate with another system is defined below.

## IMPLEMENTATION

Description: **Fire Support, Area, Target Acquisition Zones, Sensor Zone, Rectangular**

Parameters:
1. Anchor Points. This graphic requires two anchor points and a width, defined in meters, to define the boundary of the area. Points 1 and 2 will be located in the center of two opposing sides of the rectangle.

2. Size/Shape. Size: As determined by the anchor points. The anchor points determine the length of the rectangle. The width, defined in meters, will determine the width of the rectangle. Shape: Rectangle. The information fields should be moveable and scaleable.

3. Orientation. As determined by the anchor points.

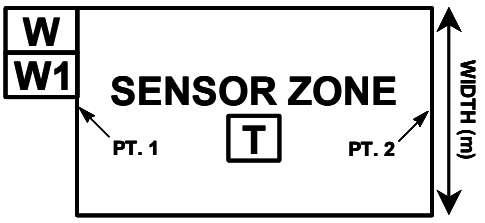
Fixed/Dynamic: Dynamic

Hierarchy: 2.X.4.3.3.3.2

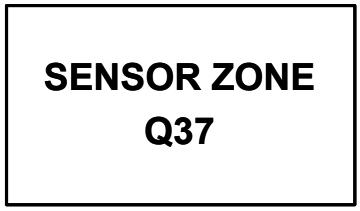
Symbol ID: G*F*AZSR--****X

| SYMBOLOGY CONFIGURATION MANAGEMENT<br>CHANGE PROPOSAL FORM | | | |
|---|---|---|---|
| **CHANGE PROPOSAL NUMBER** | | **MIL00-15B** | |
| **ORIGINATOR** | **SPONSOR** | **DATE RECEIVED** | **DATE OF ACTION** |
| **PM FATDS** | **ARMY** | **1 September 2000** | **August 23, 2001** |
| **CHANGE PROPOSAL TITLE** | | | |
| ADD NEW SYMBOL, **SENSOR ZONE, RECTANGULAR** | | | |

Tactical Graphic:




Example:




**JIEO ANALYSIS**

**OVERVIEW:**

**POTENTIAL CONFLICTS WITH EXISTING SYMBOLOGY:**

**CONFORMANCE TO SYMBOL GUIDELINES:**

**ADEQUACY AND IMPACT ON OTHER PROGRAMS:**

**C/S/A COMMENTS**

**DECISION NOTICE**

SSMC 3-01: Approved as amended. MIL00-15A amended by adding text to point out that width will be defined in meters. See parameters and graphic example above and the example of Table B-IV in attachment A.

Attachment A to MIL00-15B, Add New Symbol, Sensor Zone, Rectangular

Tasks:

1. Modify Figure B-17 to reflect new hierarchy structure (Figure B-17 becomes Figures B-17.1 and B-17.2) and addition of new Fire Support graphics.

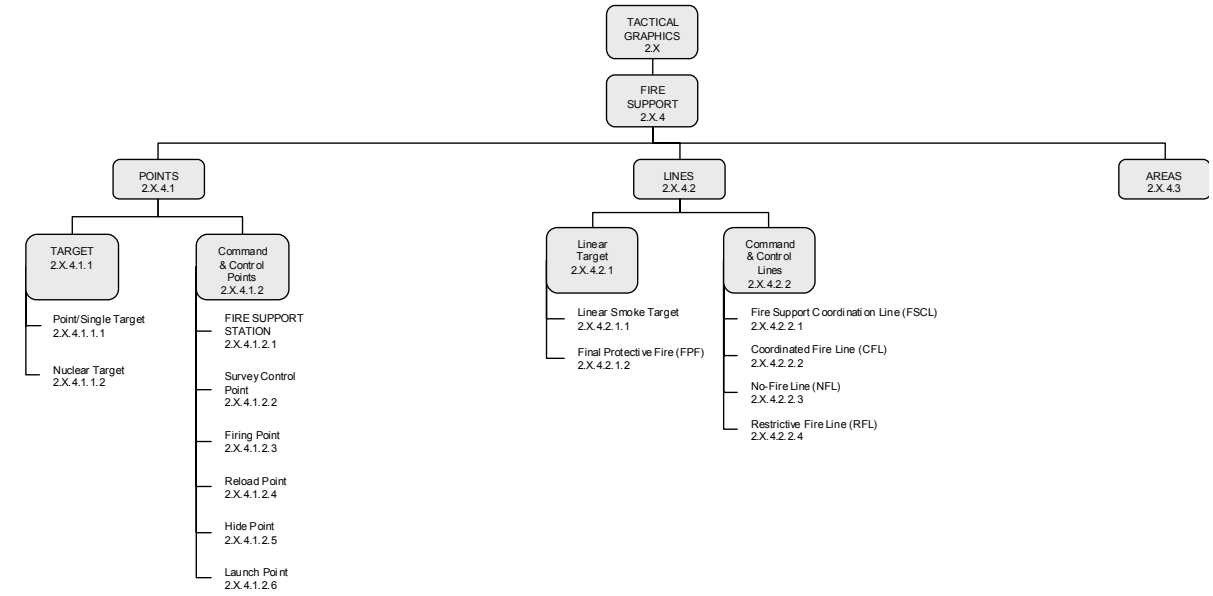



Figure B-17.1. Fire Support.

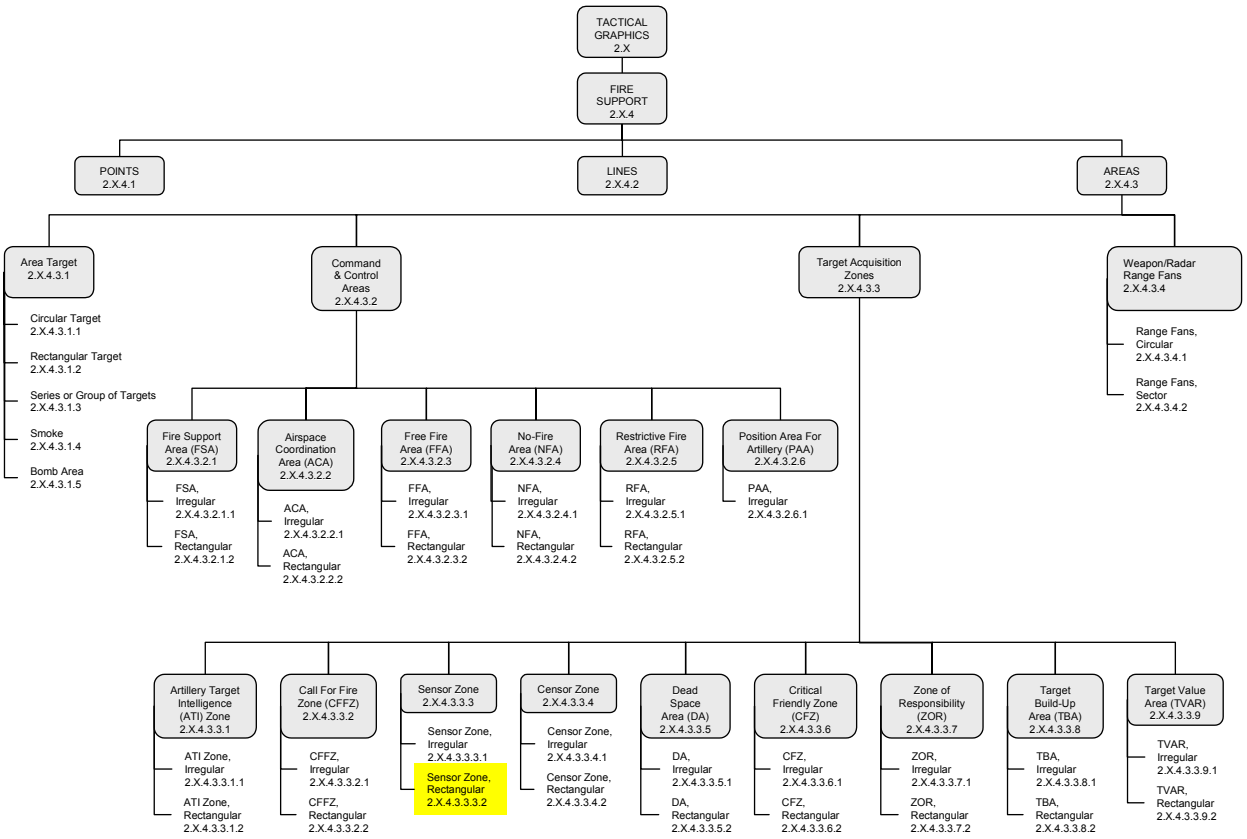



Figure B-17.2. Fire support.

2. Modify Table B-III to reflect restructured hierarchy numbers, provide new symbol IDs for restructured graphics and addition of new graphics' hierarchy numbers and symbol IDs.

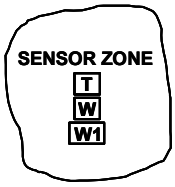
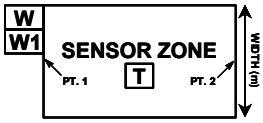
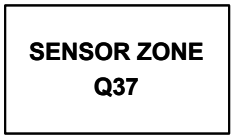
| HIERARCHY | CODE SCHEME | AFFILIATION | CATEGORY | STATUS | FUNCTION ID | | | SIZE/MOBILITY | COUNTRY CODE | ORDER OF BATTLE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.X.4 | G | * | F | * | -- | -- | -- | ** | ** | X | FIRE SUPPORT |
| 2.X.4.1 | G | * | F | * | P- | -- | -- | ** | ** | X | POINT |
| 2.X.4.1.1 | G | * | F | * | PT | -- | -- | ** | ** | X | TARGET |
| 2.X.4.1.1.1 | G | * | F | * | PT | S- | -- | ** | ** | X | POINT/SINGLE TARGET |
| 2.X.4.1.1.2 | G | * | F | * | PT | N- | -- | ** | ** | X | NUCLEAR TARGET |
| 2.X.4.1.2 | G | * | F | * | PC | -- | -- | ** | ** | X | COMMAND AND CONTROL |
| 2.X.4.1.2.1 | G | * | F | * | PC | F- | -- | ** | ** | X | FIRE SUPPORT STATION |
| 2.X.4.1.2.2 | G | * | F | * | PC | S- | -- | ** | ** | X | SURVEY CONTROL POINT (SCP) |
| 2.X.4.1.2.3 | G | * | F | * | PC | B- | -- | ** | ** | X | FIRING POINT |
| 2.X.4.1.2.4 | G | * | F | * | PC | R- | -- | ** | ** | X | RELOAD POINT |
| 2.X.4.1.2.5 | G | * | F | * | PC | H- | -- | ** | ** | X | HIDE POINT |
| 2.X.4.1.2.6 | G | * | F | * | PC | L- | -- | ** | ** | X | LAUNCH POINT |
| 2.X.4.2 | G | * | F | * | L- | -- | -- | ** | ** | X | LINES |
| 2.X.4.2.1 | G | * | F | * | LT | -- | -- | ** | ** | X | LINEAR TARGET |
| 2.X.4.2.1.1 | G | * | F | * | LT | S- | -- | ** | ** | X | LINEAR SMOKE TARGET |
| 2.X.4.2.1.2 | G | * | F | * | LT | F- | -- | ** | ** | X | FINAL PROTECTIVE FIRE (FPF) |
| 2.X.4.2.2 | G | * | F | * | LC | -- | -- | ** | ** | X | COMMANDAND CONTROL |
| 2.X.4.2.2.1 | G | * | F | * | LC | F- | -- | ** | ** | X | FIRE SUPPORT COORDINATION LINE (FSCL) |
| 2.X.4.2.2.2 | G | * | F | * | LC | C- | -- | ** | ** | X | COORDINATED FIRE LINE (CFL) |
| 2.X.4.2.2.3 | G | * | F | * | LC | N- | -- | ** | ** | X | NO-FIRE LINE (NFL) |
| 2.X.4.2.2.4 | G | * | F | * | LC | R- | -- | ** | ** | X | RESTRICTIVE FIRE LINE (RFL) |
| 2.X.4.3 | G | * | F | * | A- | -- | -- | ** | ** | X | AREAS |
| 2.X.4.3.1 | G | * | F | * | AT | -- | -- | ** | ** | X | AREA TARGET |
| 2.X.4.3.1.1 | G | * | F | * | AT | C- | -- | ** | ** | X | CIRCULAR TARGET |
| 2.X.4.3.1.2 | G | * | F | * | AT | R- | -- | ** | ** | X | RECTANGULAR TARGET |
| 2.X.4.3.1.3 | G | * | F | * | AT | G- | -- | ** | ** | X | SERIES OR GROUP OF TARGETS |
| 2.X.4.3.1.4 | G | * | F | * | AT | S- | -- | ** | ** | X | SMOKE |
| 2.X.4.3.1.5 | G | * | F | * | AT | B- | -- | ** | ** | X | BOMB AREA |
| 2.X.4.3.2 | G | * | F | * | AC | -- | -- | ** | ** | X | COMMAND AND CONTROL |
| 2.X.4.3.2.1 | G | * | F | * | AC | S- | -- | ** | ** | X | FIRE SUPPORT AREA (FSA) |
| 2.X.4.3.2.1.1 | G | * | F | * | AC | SI | -- | ** | ** | X | FIRE SUPPORT AREA (FSA), IRREGULAR |
| 2.X.4.3.2.1.2 | G | * | F | * | AC | SR | -- | ** | ** | X | FIRE SUPPORT AREA (FSA), RECTANGULAR |
| 2.X.4.3.2.2 | G | * | F | * | AC | A- | -- | ** | ** | X | AIRSPACE COORDINATION AREA (ACA) |
| 2.X.4.3.2.2.1 | G | * | F | * | AC | AI | -- | ** | ** | X | AIRSPACE COORDINATION AREA (ACA), IRREGULAR |
| 2.X.4.3.2.2.2 | G | * | F | * | AC | AR | -- | ** | ** | X | AIRSPACE COORDINATION AREA (ACA), RECTANGULAR |
| 2.X.4.3.2.3 | G | * | F | * | AC | F- | -- | ** | ** | X | FREE FIRE AREA (FFA) |
| 2.X.4.3.2.3.1 | G | * | F | * | AC | FI | -- | ** | ** | X | FREE FIRE AREA (FFA), IRREGULAR |
| 2.X.4.3.2.3.2 | G | * | F | * | AC | FR | -- | ** | ** | X | FREE FIRE AREA (FFA), RECTANGULAR |
| 2.X.4.3.2.4 | G | * | F | * | AC | N- | -- | ** | ** | X | NO-FIRE AREA (NFA) |
| 2.X.4.3.2.4.1 | G | * | F | * | AC | NI | -- | ** | ** | X | NO-FIRE AREA (NFA), IRREGULAR |
| 2.X.4.3.2.4.2 | G | * | F | * | AC | NR | -- | ** | ** | X | NO-FIRE AREA (NFA), RECTANGULAR |
| 2.X.4.3.2.5 | G | * | F | * | AC | R- | -- | ** | ** | X | RESTRICTIVE FIRE AREA (RFA) |
| 2.X.4.3.2.5.1 | G | * | F | * | AC | RI | -- | ** | ** | X | RESTRICTIVE FIRE AREA (RFA), IRREGULAR |
| 2.X.4.3.2.5.2 | G | * | F | * | AC | RR | -- | ** | ** | X | RESTRICTIVE FIRE AREA (RFA), RECTANGULAR |
| 2.X.4.3.2.6 | G | * | F | * | AC | P- | -- | ** | ** | X | POSITION AREA FOR ARTILLERY (PAA) |
| 2.X.4.3.2.6.1 | G | * | F | * | AC | PI | -- | ** | ** | X | POSITION AREA FOR ARTILLERY (PAA), |

Attachment A to MIL00-15B, Add New Symbol, Sensor Zone, Rectangular

| HIERARCHY | CODE SCHEME | AFFILIATION | CATEGORY | STATUS | FUNCTION ID | | | SIZE/MOBILITY | COUNTRY CODE | ORDER OF BATTLE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | IRREGULAR |
| 2.X.4.3.3 | G | * | F | * | AZ | -- | -- | ** | ** | X | TARGET ACQUISITION ZONES |
| 2.X.4.3.3.1 | G | * | F | * | AZ | I- | -- | ** | ** | X | ARTILLERY TARGET INTELLIGENCE (ATI) ZONE |
| 2.X.4.3.3.1.1 | G | * | F | * | AZ | II | -- | ** | ** | X | ARTILLERY TARGET INTELLIGENCE (ATI) ZONE, IRREGULAR |
| 2.X.4.3.3.1.2 | G | * | F | * | AZ | IR | -- | ** | ** | X | ARTILLERY TARGET INTELLIGENCE (ATI) ZONE, RECTANGULAR |
| 2.X.4.3.3.2 | G | * | F | * | AZ | X- | -- | ** | ** | X | CALL FOR FIRE ZONE (CFFZ) |
| 2.X.4.3.3.2.1 | G | * | F | * | AZ | XI | -- | ** | ** | X | CALL FOR FIRE ZONE (CFFZ), IRREGULAR |
| 2.X.4.3.3.2.2 | G | * | F | * | AZ | XR | -- | ** | ** | X | CALL FOR FIRE ZONE (CFFZ), RECTANGULAR |
| 2.X.4.3.3.3 | G | * | F | * | AZ | S- | -- | ** | ** | X | SENSOR ZONE |
| 2.X.4.3.3.3.1 | G | * | F | * | AZ | SI | -- | ** | ** | X | SENSOR ZONE, IRREGULAR |
| 2.X.4.3.3.3.2 | G | * | F | * | AZ | SR | -- | ** | ** | X | SENSOR ZONE, RECTANGULAR |
| 2.X.4.3.3.4 | G | * | F | * | AZ | C- | -- | ** | ** | X | CENSOR ZONE |
| 2.X.4.3.3.4.1 | G | * | F | * | AZ | CI | -- | ** | ** | X | CENSOR ZONE, IRREGULAR |
| 2.X.4.3.3.4.2 | G | * | F | * | AZ | CR | -- | ** | ** | X | CENSOR ZONE, RECTANGULAR |
| 2.X.4.3.3.5 | G | * | F | * | AZ | D- | -- | ** | ** | X | DEAD SPACE AREA (DA) |
| 2.X.4.3.3.5.1 | G | * | F | * | AZ | DI | -- | ** | ** | X | DEAD SPACE AREA (DA), IRREGULAR |
| 2.X.4.3.3.5.2 | G | * | F | * | AZ | DR | -- | ** | ** | X | DEAD SPACE AREA (DA), RECTANGULAR |
| 2.X.4.3.3.6 | G | * | F | * | AZ | F- | -- | ** | ** | X | CRITICAL FRIENDLY ZONE (CFZ) |
| 2.X.4.3.3.6.1 | G | * | F | * | AZ | FI | -- | ** | ** | X | CRITICAL FRIENDLY ZONE (CFZ), IRREGULAR |
| 2.X.4.3.3.6.2 | G | * | F | * | AZ | FR | -- | ** | ** | X | CRITICAL FRIENDLY ZONE (CFZ), RECTANGULAR |
| 2.X.4.3.3.7 | G | * | F | * | AZ | Z- | -- | ** | ** | X | ZONE OF RESPONSIBILITY (ZOR) |
| 2.X.4.3.3.7.1 | G | * | F | * | AZ | ZI | -- | ** | ** | X | ZONE OF RESPONSIBILITY (ZOR), IRREGULAR |
| 2.X.4.3.3.7.2 | G | * | F | * | AZ | ZR | -- | ** | ** | X | ZONE OF RESPONSIBILITY (ZOR), RECTANGULAR |
| 2.X.4.3.3.8 | G | * | F | * | AZ | B- | -- | ** | ** | X | TARGET BUILD-UP AREA (TBA) |
| 2.X.4.3.3.8.1 | G | * | F | * | AZ | BI | -- | ** | ** | X | TARGET BUILD-UP AREA (TBA), IRREGULAR |
| 2.X.4.3.3.8.2 | G | * | F | * | AZ | BR | -- | ** | ** | X | TARGET BUILD-UP AREA (TBA), RECTANGULAR |
| 2.X.4.3.3.9 | G | * | F | * | AZ | V- | -- | ** | ** | X | TARGET VALUE AREA (TVAR) |
| 2.X.4.3.3.9.1 | G | * | F | * | AZ | VI | -- | ** | ** | X | TARGET VALUE AREA (TVAR), IRREGULAR |
| 2.X.4.3.3.9.2 | G | * | F | * | AZ | VR | -- | ** | ** | X | TARGET VALUE AREA (TVAR), RECTANGULAR |
| 2.X.4.3.4 | G | * | F | * | AX | -- | -- | ** | ** | X | WEAPON/RADAR RANGE FAN |
| 2.X.4.3.4.1 | G | * | F | * | AX | C- | -- | ** | ** | X | WEAPON/RADAR RANGE FAN, CIRCULAR |
| 2.X.4.3.4.2 | G | * | F | * | AX | S- | -- | ** | ** | X | WEAPON/RADAR RANGE FAN, SECTOR |

Attachment A to MIL00-15B, Add New Symbol, Sensor Zone, Rectangular

3. Modify and amend Table B-IV as needed to agree with Figure B-17.1, B-17.2 and Table B-III as shown above.

| DESCRIPTION | STATIC/ DYNAMIC | HIERARCHY / SYM-ID | TACTICAL GRAPHIC |
|---|---|---|---|
| FIRE SUPPORT<br>AREAS<br>TARGET ACQUISITION ZONES<br>SENSOR ZONE | N/A | 2.X.4.3.3.3 | |
| FIRE SUPPORT<br>AREAS<br>TARGET ACQUISITION ZONES<br>SENSOR ZONE<br>IRREGULAR<br><br>Parameters<br><br>1. Anchor points. This graphic requires a minimum of three anchor points to define the boundary of the area. Add as many points as necessary to accurately reflect the area's size and shape.<br><br>2. Size/Shape. Determined by the anchor points. The information fields should be moveable and scaleable within the area.<br><br>3. Orientation. Not applicable. | D | 2.X.4.3.3.3.1<br><br>G*FPAZSI--<br>****X<br><br>Example |  <br>  |
| FIRE SUPPORT<br>AREAS<br>TARGET ACQUISITION ZONES<br>SENSOR ZONE<br>RECTANGULAR<br><br>Parameters<br><br>1. Anchor Points. This graphic requires two anchor points and a width, defined in meters, to define the boundary of the area. Points 1 and 2 will be located in the center of two opposing sides of the rectangle.<br><br>2. Size/Shape. Size: As determined by the anchor points. The anchor points determine the length of the rectangle. The width, defined in meters, will determine the width of the rectangle. Shape: Rectangle. The information fields should be moveable and scaleable.<br><br>3. Orientation. As determined by the anchor points. | D | 2.X.4.3.3.3.2<br><br>G*FPAZSR--<br>****X<br><br>Example |  <br>  |